

MEMORANDUM

TO: Chuck Schwer, Director Waste Management, DEC

CC: Matt Chapman, General Counsel, DEC
David Englander, Senior Policy and Legal Advisor, VDH

FROM: Sarah Vose, State Toxicologist

SUBJECT: Perfluorooctanoic acid (PFOA) Soil Screening Value

DATE: March 10, 2016

As requested by DEC, Health has developed a screening value for PFOA in surface soil based on a residential use exposure scenario.

Potential screening values were derived based on cancer and noncancer endpoints, and the most conservative value was selected as the preliminary screening level. In this instance, the noncancer based value was most conservative

A preliminary value of 0.30 milligrams of PFOA per kilogram of soil (mg/kg) based on noncancer effects was derived using standard point estimate risk assessment equations, conservative exposure assumptions (e.g., exposure frequency of 350 days per years) and a Hazard Quotient of 0.2. A target Hazard Quotient less than 1 was used to account for potential simultaneous exposure to other noncarcinogens that may be present in soil as well as other potential sources of exposure to PFOA. A hypothetical young child was the focus of the noncancer evaluation.

